

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Cancelled).

2. (Currently Amended) A rotation control circuit of a motor, comprising:

a PWM control circuit of said motor;

a rotational speed sensor of said motor;

a reference signal generation circuit;

a phase comparing circuit;

a divider for dividing the detected rotational speed signal of said motor; and

~~A rotation control circuit of a motor according to claim 1, further comprising a rotation command means of said motor;~~

wherein the phase difference between the signal from said divider and the signal based on said reference signal is sought with said phase comparing unit, and this phase difference signal is supplied to said PWM control circuit; and

wherein said command means alters the division ratio of said divider in accordance with the contents of the rotational speed alteration request to said motor.

3. (Currently Amended) A driver comprising the rotation control circuit of a motor according to ~~claim 1~~ claim 2, wherein said driver employs the motor controlled with said control circuit as a drive source of a drive mechanism.

4-6. (Cancelled)

7. (Currently Amended) A vehicle having a vehicle body, a drive wheel, an auxiliary wheel, and a first drive source and in which said first drive source rotates said drive wheel to make said vehicle run, comprising:

a position sensor of said vehicle body which outputs a frequency signal as a detection signal;

drive control means of said vehicle body; and

posture control means of said vehicle body which has a second drive source for moving the position of said drive wheel in relation to the vehicle body, a third drive source for making said auxiliary wheel float from the road surface, and a control circuit for controlling said second drive source in accordance with the frequency signal from said position sensor and said drive control means;

wherein said ~~control circuit~~~~posture control means~~ has a reference signal generation circuit, a phase comparing circuit, a divider for dividing said ~~frequency~~~~pulse~~ wave signal, and a PWM control circuit, ~~said;~~ ~~wherein~~ the phase difference between the signal from said divider and the signal based on said reference signal is compared with said phase comparing unit, this phase difference signal is supplied to said PWM control circuit, and the output of said PWM control circuit is supplied to said second drive source.

8. (Currently Amended) A vehicle according to ~~claim 5~~ claim 7, wherein said first and second drive sources are electric motors.

9. (Currently Amended) A vehicle according to ~~claim 5~~ claim 7, wherein said position sensor is a distance sensor of said vehicle body and road surface, or an inclination sensor for detecting the inclination of said vehicle body.

10-11. (Cancelled)

12. (Previously Presented) A driver comprising the rotation control circuit of a motor according to claim 2, wherein said driver employs the motor controlled with said control circuit as a drive source of a drive mechanism.

13-19. (Cancelled)

20. (New) A vehicle according to claim 7, wherein said detection signal is a distance signal for indicating the distance of said vehicle body and road surface, or an inclination signal for indicating the inclination of said vehicle body.